```
=> d his

     (FILE 'HOME' ENTERED AT 14:58:49 ON 05 FEB 2003)

     FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 14:59:02 ON 05 FEB
     2003
L1          1716 S MRP2
L2            33 S MOAT-B
L3          1757 S MULTISPECIFIC(W)ORGANIC(W)ANION(W)TRANSPORT? OR MOAT
L4            17 DUP REM L2 (16 DUPLICATES REMOVED)
L5           216 S ABCC4 OR MRP4 OR MOATB
L6       2596205 S DNA OR POLYNUCLEOTIDE OR NUCLEIC(W)ACID
L7       2824561 S L6 OR CDNA
L8            11 S L5(5A)L7
L9             7 DUP REM L8 (4 DUPLICATES REMOVED)
L10           14 S L5(7A)L7
L11           10 DUP REM L10 (4 DUPLICATES REMOVED)

=> d au ti so 1-10 l11

L11  ANSWER 1 OF 10     MEDLINE                              DUPLICATE 1
AU   Lamba Jatinder Kaur; Adachi Masashi; Sun Daxi; Tammur Jaana; Schuetz Erin
     G; Allikmets Rando; Schuetz John D
TI   Nonsense mediated decay downregulates conserved alternatively spliced
     ABCC4 transcripts bearing nonsense codons.
SO   HUMAN MOLECULAR GENETICS, (2003 Jan 15) 12 (2) 99-109.
     Journal code: 9208958. ISSN: 0964-6906.

L11  ANSWER 2 OF 10  CAPLUS  COPYRIGHT 2003 ACS
AU   Cui, Daxiang; Zeng, Guiying; Wang, Feng; Tian, Furong; Guo, Yanhai; Xu,
     Junrong; Yan, Xiaojun; Ren, Dongqing; Su, Chengzhi
TI   Analysis of gene associated with exogenous nucleic acid improving repair
     of intestinal epithelium after .gamma. irradiation in mice
SO   Shengwu Huaxue Yu Shengwu Wuli Jinzhan (2001), 28(3), 353-357
     CODEN: SHYCD4; ISSN: 1000-3282

L11  ANSWER 3 OF 10  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU   Sampath, Janardhan (1); Tammur, Joana; Sun, Daxi; Hatse, S.; Adachi,
     Masashi; Balzarini, Jan; Allikmets, Rando; Schuetz, John D.
TI   Structure of the human MRP4 gene and evidence that MRP4 confers selective
     resistance to some chemotherapeutic agents.
SO   Proceedings of the American Association for Cancer Research Annual
     Meeting, (March, 2001) Vol. 42, pp. 280. print.
     Meeting Info.: 92nd Annual Meeting of the American Association for Cancer
     Research New Orleans, LA, USA March 24-28, 2001
     ISSN: 0197-016X.

L11  ANSWER 4 OF 10  CAPLUS  COPYRIGHT 2003 ACS
AU   Cui, Daxiang; Zeng, Guiying; Wang, Feng; Guo, Yanhai; Ren, Dongqing; Tian,
     Furong; Yan, Xiaojun; Zhao, Tao; Su, Chengzhi
TI   Cloning of mouse genes related to repairing of intestinal epithelium of
     the .gamma. irradiated mice by treatment with the intestinal RNA of mice
     of the same strain
SO   Fushe Yanjiu Yu Fushe Gongyi Xuebao (2001), 19(1), 71-80
     CODEN: FYYXEA; ISSN: 1000-3436

L11  ANSWER 5 OF 10  CAPLUS  COPYRIGHT 2003 ACS
IN   Schuetz, John; Fridland, Arnold
TI   Multidrug resistance-associated protein MRP4 and its biological function
     and uses
SO   PCT Int. Appl., 116 pp.
     CODEN: PIXXD2
```

L11 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2003 ACS
AU Fassett, J. T.; Hamilton, R. T.; Nilsen-Hamilton, M.
TI Mrp4, a new mitogen-regulated protein/proliferin gene; unique in this gene family for its expression in the adult mouse tail and ear
SO Endocrinology (2000), 141(5), 1863-1871
CODEN: ENDOAO; ISSN: 0013-7227

L11 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2003 ACS
AU Cui, Da Xiang; Zeng, Guei Ying; Wang, Feng; Xu, Jun Rong; Ren, Dong Qing; Guo, Yan Hai; Tian, Fu Rong; Yan, Xiao Jun; Hou, Yu; Su, Cheng Zhi
TI Mechanism of exogenous nucleic acids and their precursors improving the repair of intestinal epithelium after .gamma.-irradiation in mice
SO World Journal of Gastroenterology (2000), 6(5), 709-717
CODEN: WJGAF2; ISSN: 1007-9327

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS
IN Oude, Elferink Ronald Petrus Johannes; Paulusma, Coenraad Cornelis; Bosma, Piter Jabik; Borst, Piet; Evers, Raymond; Kool, Marcel
TI A family of organic anion transporters, nucleic acids encoding them, cells comprising them and methods for using them in gene therapy and diagnosis
SO PCT Int. Appl., 105 pp.
CODEN: PIXXD2

L11 ANSWER 9 OF 10 MEDLINE DUPLICATE 2
AU O'Toole P; Stenberg L; Rissler M; Lindahl G
TI Two major classes in the M protein family in group A streptococci.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1992 Sep 15) 89 (18) 8661-5.
Journal code: 7505876. ISSN: 0027-8424.

L11 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS
AU Davis, Stephen C.; Tzagoloff, Alexander; Ellis, Steven R.
TI Characterization of a yeast mitochondrial ribosomal protein structurally related to the mammalian 68-kDa high affinity laminin receptor
SO Journal of Biological Chemistry (1992), 267(8), 5508-14
CODEN: JBCHA3; ISSN: 0021-9258

=> d 5 8 bib l11

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS
AN 2000:707295 CAPLUS
DN 133:277842
TI Multidrug resistance-associated protein MRP4 and its biological function and uses
IN Schuetz, John; Fridland, Arnold
PA St. Jude Children's Research Hospital, USA
SO PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000058471	A2	20001005	WO 2000-US8493	20000331
	WO 2000058471	A3	20010208		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1999-281646 A1 19990331

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS
AN 1997:579824 CAPLUS
DN 127:273885
TI A family of organic anion transporters, nucleic acids encoding them, cells comprising them and methods for using them in gene therapy and diagnosis
IN Oude, Elferink Ronald Petrus Johannes; Paulusma, Coenraad Cornelis; Bosma, Piter Jabik; Borst, Piet; Evers, Raymond; Kool, Marcel
PA Introgene B.V., Neth.; Academisch Medisch Centrum Amsterdam; Het Nederlands Kanker Instituut; Oude Elferink, Ronald Petrus Johannes; Paulusma, Coenraad Cornelis; Bosma, Piter Jabik; Borst, Piet; Evers, Raymond; Kool, Marcel
SO PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9731111	A2	19970828	WO 1997-NL79	19970221
WO 9731111	A3	19971127		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9717366	A1	19970910	AU 1997-17366	19970221
EP 900273	A2	19990310	EP 1997-904656	19970221
R: BE, CH, DE, ES, FR, GB, IT, LI, LU, NL				

PRAI EP 1996-200460 19960222
WO 1997-NL79 19970221

=> d ab 8 10 11 l11
10 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> d ab 8 10 11 l11
10 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):8-10

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB The present invention provides a novel family of org. anion transporters of which until now only one member was known. The family includes multispecific org. anion transporters related to the canalicular multispecific org. anion transporter. The cDNA encoding the latter is also provided. The rat and human cDNA are exemplified. Uses of nucleic acids based on this gene family and of cells comprising such nucleic acids as well as vectors comprising sequences thereof are also disclosed esp. in the area of gene therapy. The cMOAT gene was shown to be distinct from the MSP1 gene. MRP1 was localized to basolateral membrane of kidney epithelial cells while cMOAT was localized to the canalicular membrane. Addn., cMOAT, but not MRP1, was found to be involved in biliary org. anion transport. The **cDNA** for three other human MRP homologs (MRP3, **MRP4** and MRP5) were cloned. The genes for these proteins were mapped to human chromosomes 17, 13 and 3, resp. In multidrug resistant cell lines, there was no clear correlation between drug resistance and

MRP3, MRP4 or MRP5 expression levels; however, the expression level of cMOAT correlated with cisplatin resistance. A mutation in the cMOAT gene was found to cause the Dubin-Johnson syndrome. The mutation causes a loss of a TaqI restriction site.

L11 ANSWER 9 OF 10 MEDLINE DUPLICATE 2
AB The M protein family of molecules in the group A streptococcus comprises a number of cell surface proteins that interact with the immune system of the host. One of the proteins in this family is the IgA receptor Arp4, which has C repeats similar to those that characterize the known M proteins. The streptococcal strain expressing Arp4 also expresses a second immunoglobulin-binding protein, Mrp4, which is shown here to be encoded by a gene located immediately upstream of the gene for Arp4. In addition to binding IgG, Mrp4 also binds fibrinogen, a property ascribed to M proteins. **DNA** sequence analysis demonstrated that the **Mrp4** protein indeed is a member of the M protein family, but it was unexpectedly found to have a type of repeat that is identical to the A repeat described for FcRA76, a partially sequenced streptococcal Fc receptor. Purified FcRA76 was shown to bind fibrinogen and IgG, like Mrp4. These data show that the known molecules in the M protein family can be divided into two classes, A and C, according to the type of repeat region found. Hybridization studies with a panel of clinical isolates indicate that many streptococcal strains express class A and class C proteins, whereas some strains express only class C proteins. Class A molecules show amino-terminal sequence variation, like class C molecules, which suggests that proteins of both classes are targets for the immune response.

L11 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB The nuclear gene MRP4 coding for a mitochondrial ribosomal protein of the yeast, Saccharomyces cerevisiae was cloned. The gene was isolated by complementation of a respiratory-deficient mutant with a pleitropic defect in mitochondrial gene expression. The nucleotide sequence of MRP4 revealed that it has sequence similarity with Escherichia coli ribosomal protein S2 and related proteins of chloroplast ribosomes from different plants. Further characterization of the MRP4 protein revealed that it is a component of the 37 S subunit of mitochondrial ribosomes. Moreover, the phenotype of cells carrying a disrupted copy of MRP4 is consistent with the MRP4 protein being an essential component of the mitochondrial protein synthetic machinery. Finally, it is noted that the MRP4 protein and other members of the S2 family of ribosomal proteins have regions of sequence similarity with the mammalian 68-kDa high affinity laminin receptor.

=>

=> d his

(FILE 'HOME' ENTERED AT 14:58:49 ON 05 FEB 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 14:59:02 ON 05 FEB 2003

L1 1716 S MRP2
L2 33 S MOAT-B
L3 1757 S MULTISPECIFIC(W)ORGANIC(W)ANION(W)TRANSPORT? OR MOAT
L4 17 DUP REM L2 (16 DUPLICATES REMOVED)

=> d au ti so 1-17 l4

L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
IN Mack, David H.; Aziz, Natasha
TI Gene expression profiles useful for diagnosis of human bladder cancer and screening for modulators of bladder cancer
SO PCT Int. Appl., 307 pp.
CODEN: PIXXD2

L4 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Mack, David H.; Gish, Kurt C.
TI Gene expression profiles useful for diagnosis of human ovarian cancer and screening for modulators of ovarian cancer
SO PCT Int. Appl., 332 pp.
CODEN: PIXXD2

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Hampton, Garret Malcolm; Welsh, John Barnard
TI Genes overexpressed in prostate disorders as diagnostic and therapeutic targets
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2

L4 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
TI Measurement of DNA methylation for analysis of the toxicology of substances
SO PCT Int. Appl., 113 pp.
CODEN: PIXXD2

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Chenchik, Alex; Lukashev, Matvey E.
TI Human stress genes identified using DNA microarrays
SO U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 441,920.
CODEN: USXXCO

L4 ANSWER 6 OF 17 MEDLINE DUPLICATE 2
AU Chen Zhe-Sheng; Lee Kun; Walther Susan; Raftogianis Rebecca Blanchard; Kuwano Michihiko; Zeng Hao; Kruh Gary D
TI Analysis of methotrexate and folate transport by multidrug resistance protein 4 (ABCC4): MRP4 is a component of the methotrexate efflux system.
SO CANCER RESEARCH, (2002 Jun 1) 62 (11) 3144-50.
Journal code: 2984705R. ISSN: 0008-5472.

L4 ANSWER 7 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU Lamba, Jatinder Kaur (1); Sun, Daxi; Tammur, Jaana; Schuetz, Erin G.; Allikmets, Rando; Schuetz, John D.
TI The MRP4 gene reveals exons that would encode truncated proteins unless spliced out.
SO Proceedings of the American Association for Cancer Research Annual Meeting, (March, 2002) Vol. 43, pp. 781. print.
Meeting Info.: 93rd Annual Meeting of the American Association for Cancer

Research San Francisco, California, USA April 06-10, 2002
ISSN: 0197-016X.

L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Tarasova, Nadya I.; Michejda, Christopher J.; Gottesman, Michael M.; Hrycyna, Christine
TI Inhibition of ABC transporters by transmembrane domain analogs for support of cancer and antiviral chemotherapy
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2

L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Farr, Spencer
TI Methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile
SO PCT Int. Appl., 222 pp.
CODEN: PIXXD2

L4 ANSWER 10 OF 17 MEDLINE DUPLICATE 3
AU Lee K; Klein-Szanto A J; Kruh G D
TI Analysis of the MRP4 drug resistance profile in transfected NIH3T3 cells.
SO JOURNAL OF THE NATIONAL CANCER INSTITUTE, (2000 Dec 6) 92 (23) 1934-40.
Journal code: 7503089. ISSN: 0027-8874.

L4 ANSWER 11 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU Lee, Kun (1); Klein-Szanto, Andres (1); Kruh, Gary D. (1)
TI Expression of MRP4 (**MOAT-B**) in NIH3T3 cells confers resistance to methotrexate and the anti-AIDS drug PMEA.
SO Proceedings of the American Association for Cancer Research Annual Meeting, (March, 2000) No. 41, pp. 677. print..
Meeting Info.: 91st Annual Meeting of the American Association for Cancer Research. San Francisco, California, USA April 01-05, 2000
ISSN: 0197-016X.

L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS
AU Zuber, Johannes; Tchernitsa, Oleg I.; Hinzmann, Bernd; Schmitz, Anne-Chantal; Grips, Martin; Hellriegel, Martin; Sers, Christine; Rosenthal, Andre; Schafer, Reinhold
TI A genome-wide survey of RAS transformation targets
SO Nature Genetics (2000), 24(2), 144-152
CODEN: NGENEC; ISSN: 1061-4036

L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS
IN Kruh, Gary; Lee, Kun; Belinsky, Martin; Bain, Lisa
TI MRP-related ABC transporter encoding nucleic acids and methods of use thereof
SO PCT Int. Appl., 151 pp.
CODEN: PIXXD2

L4 ANSWER 14 OF 17 MEDLINE DUPLICATE 4
AU Belinsky M G; Kruh G D
TI MOAT-E (ARA) is a full-length MRP/cMOAT subfamily transporter expressed in kidney and liver.
SO BRITISH JOURNAL OF CANCER, (1999 Jul) 80 (9) 1342-9.
Journal code: 0370635. ISSN: 0007-0920.

L4 ANSWER 15 OF 17 MEDLINE DUPLICATE 5
AU Lee K; Belinsky M G; Bell D W; Testa J R; Kruh G D
TI Isolation of **MOAT-B**, a widely expressed multidrug resistance-associated protein/canalicular multispecific organic anion transporter-related transporter.
SO CANCER RESEARCH, (1998 Jul 1) 58 (13) 2741-7.
Journal code: 2984705R. ISSN: 0008-5472.

L4 ANSWER 16 OF 17 MEDLINE DUPLICATE 6
AU Belinsky M G; Bain L J; Balsara B B; Testa J R; Kruh G D
TI Characterization of MOAT-C and MOAT-D, new members of the MRP/cMOAT subfamily of transporter proteins.
SO JOURNAL OF THE NATIONAL CANCER INSTITUTE, (1998 Nov 18) 90 (22) 1735-41. Journal code: 7503089. ISSN: 0027-8874.

L4 ANSWER 17 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU Lee, Kun; Liu, Yong; Bell, Daphne; Testa, Joseph R.; Belinsky, Martin; Kruh, Gary D.
TI Isolation of **MOAT-B**, an MRP/cMOAT-related transporter over-expressed in a cisplatin resistant cell line.
SO Proceedings of the American Association for Cancer Research Annual Meeting, (March, 1998) Vol. 39, pp. 168.
Meeting Info.: 89th Annual Meeting of the American Association for Cancer Research New Orleans, Louisiana, USA March 28-April 1, 1998 American Association for Cancer Research
. ISSN: 0197-016X.

=> d ab 15-17 l4

L4 ANSWER 15 OF 17 MEDLINE DUPLICATE 5
AB Multidrug resistance-associated protein (MRP) and canalicular multispecific organic anion transporter (cMOAT) are closely related mammalian ATP-binding cassette transporters that export organic anions from cells. Transfection studies have established that MRP confers resistance to natural product cytotoxic agents, and recent evidence suggests the possibility that cMOAT may contribute to cytotoxic drug resistance as well. Based upon the potential importance of these transporters in clinical drug resistance and their important physiological roles in the export of the amphiphilic products of phase I and phase II metabolism, we sought to identify other MRP-related transporters. Using a degenerate PCR approach, we isolated a cDNA that encodes a novel ATP-binding cassette transporter, which we designated **MOAT-B**. The **MOAT-B** gene was mapped using fluorescence in situ hybridization to chromosome band 13q32. Comparison of the **MOAT-B** predicted protein with other transporters revealed that it is most closely related to MRP, cMOAT, and the yeast organic anion transporter YCF1. Although **MOAT-B** is closely related to these transporters, it is distinguished by the absence of a approximately 200 amino acid NH2-terminal hydrophobic extension that is present in MRP and cMOAT and which is predicted to encode several transmembrane spanning segments. In addition, the **MOAT-B** tissue distribution is distinct from MRP and cMOAT. In contrast to MRP, which is widely expressed in tissues, including liver, and cMOAT, the expression of which is largely restricted to liver, the **MOAT-B** transcript is widely expressed, with particularly high levels in prostate, but is barely detectable in liver. These data indicate that **MOAT-B** is a ubiquitously expressed transporter that is closely related to MRP and cMOAT and raise the possibility that it may be an organic anion pump relevant to cellular detoxification.

L4 ANSWER 16 OF 17 MEDLINE DUPLICATE 6
AB BACKGROUND: Multidrug resistance-associated protein (MRP) and canalicular multispecific organic anion transporter (cMOAT) are transporter proteins that pump organic anions across cellular membranes and have been linked to resistance to cytotoxic drugs. We previously identified **MOAT-B**, an MRP/cMOAT-related transporter, by use of a polymerase chain reaction approach. However, analysis of expressed sequence tag (EST) databases indicated that there might be additional MRP/cMOAT-related transporters. To further define the MRP/cMOAT subfamily of transporters, we used EST probes to isolate complementary DNAs for two related transporter proteins, MOAT-C and MOAT-D. METHODS: MOAT-C and MOAT-D

expression patterns in human tissues were determined by RNA blot analysis, and chromosomal localization of the genes was determined by fluorescence in situ hybridization. RESULTS: MOAT-C is predicted to encode a 1437-amino-acid protein that, among eukaryotic transporters, is most closely related to MRP, cMOAT, and **MOAT-B** (about 36% identity). However, MOAT-C is less related to MRP and cMOAT than MRP and cMOAT are to each other (about 48% identity). Like **MOAT-B**, MOAT-C lacks an N-terminal membrane-spanning domain, indicating that the topology of this protein is similarly distinct from that of MRP and cMOAT. MOAT-D is predicted to encode a 1527-amino-acid protein that is the closest known relative of MRP (about 58% identity). MOAT-D is also highly related to cMOAT (about 47% identity). The presence of an N-terminal membrane-spanning domain indicates that the topology of MOAT-D is quite similar to that of MRP and cMOAT. MOAT-C transcripts are widely expressed in human tissues; however, MOAT-D transcript expression is more restricted. The MOAT-C and MOAT-D genes are located at chromosomes 3q27 and 17q21.3, respectively. CONCLUSIONS: On the basis of amino acid identity and protein topology, the MRP/cMOAT transporter subfamily falls into two groups; the first group consists of MRP, cMOAT, and MOAT-D, and the second group consists of **MOAT-B** and MOAT-C.

L4 ANSWER 17 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

=>

WEST

Help | Logout | Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

Search Results -

Terms	Documents
moat-b	6

Database:
- US Patents Full-Text Database
- US Pre-Grant Publication Full-Text Database
- JPO Abstracts Database
- EPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search: L1

Refine Search | Recall Text | Clear

Search History

DATE: Wednesday, February 05, 2003 Printable Copy Create Case

Set Name (side by side)	Query	Hit Count	Set Name (result set)
DB=USPT,PGPB; PLUR=YES; OP=AND			
L1	moat-b	6	L1

END OF SEARCH HISTORY

Generate Collection | Print

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. 20030013097 . 22 Jan 02. 16 Jan 03. Genes overexpressed in prostate disorders as diagnostic and therapeutic targets. Welsh, John Barnard, et al. 435/6; 435/7.23 C12Q001/68 G01N033/574.

☐ 2. 20030003472 . 20 Feb 02. 02 Jan 03. Mismatch repair detection. Cox, David R., et al. 435/6; 435/471 435/484 435/488 C12Q001/68 C12N015/74.

☐ 3. 20020168771 . 08 May 01. 14 Nov 02. Vectors having replication, immunogenicity and/or pathogenicity under stress promoter regulation and use thereof. Gamerman, Gary Eric. 435/456; 435/235.1 435/320.1 C12N015/867 C12N015/861 C12N007/00 C12N015/74.

☐ 4. 20020151681 . 10 Aug 01. 17 Oct 02. Nucleic acids, proteins and antibodies. Rosen, Craig A., et al. 530/350; 435/320.1 435/325 435/69.3 536/23.5 C07K014/435 C07H021/04 C12P021/02 C12N005/06.

☐ 5. 20020009730 . 13 Feb 01. 24 Jan 02. Human stress array. Chenchik, Alex, et al. 435/6; 536/24.3 C12Q001/68 C07H021/04.

☐ 6. 20010034023 . 07 Dec 00. 25 Oct 01. Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing. Stanton, Vincent P. JR., et al. 435/6; 702/20 C12Q001/68 G06F019/00.

Generate Collection | Print

Terms	Documents
moat-b	6

Previous Page Next Page